

Message Text

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TO AMEMBASSY MOSCOW

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FOR SCIATT FROM AEC

E.O. 11652: N/A

TAGS: TECH ENRG OTRA UR

SUBJ:US-USSR S&T AGREEMENT, ENERGY AREA: DESIGN AND OPERATION
OF HEAT REJECTION SYSTEMS

FOLLOWING LETTER FROM T.A. NEMZEK, AEC,
PASS/TO L.A. TRUBITSYN, CHIEF, MAIN TECHNICAL
ADMINISTRATION, USSR, MINISTRY FOR POWER AND
ELECTRIFICATION

1. BEGIN QUOTE. THE US SIDE HAS STUDIED YOUR JANUARY 8 PROPOSAL
FOR A US/USSR COOPERATIVE PROGRAM IN THE CALENDAR YEARS 1974
AND 1975 IN THE FIELD OF DESIGN AND OPERATION OF THERMAL
POWER PLAN HEAT REJECTION SYSTEMS AND WATER SUPPLY, AND HAS A
COUNTERPROPOSAL TO MAKE WHICH INCORPORATES MOST FEATURES OF THE USSR
PROPOSAL WITH SOME SPECIFIC DELINEATIONS OF TASKS.

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DETAILS AS TO ORGANIZATIONS INVOLVED IN THE EXCHANGE CAN

BE IMPLEMENTED BY EACH OF THE PARTIES AT AN APPROPRIATE TIME. FURTHER DISCUSSION CONCERNING THIS MATTER CAN BE HELD AT THE JUNE 17 JOINT US/USSR MEETING IN WASHINGTON, D.C.. SPECIFIC DATES FOR THE EXCHANGE OF SPECIALISTS; LITERATURE, ETC.; AND FOR HOLDING OF A SEMINAR CAN BE DISCUSSED AT THE JUNE 17 MEETING. SPECIFIC DATES FOR EXCHANGE OF SEMINAR PAPER TITLES AND ABSTRACTS CAN BE DETERMINED AT THE SAME MEETING AS WELL AS THE DATE FOR AVAILABILITY OF COMPLETED SEMINAR PAPERS.

THE DECISION AS TO SPECIFICALLY WHAT SEMINAR TO HOLD AND WHERE CAN BE MADE AT THE JUNE 17 MEETING.

THE EXCHANGE OF BIBLIOGRAPHIES ON CERTAIN SPECIFIC SUBJECTS OF MUTUAL INTEREST PRIOR TO A MORE IN-DEPTH EXCHANGE OF INFORMATION APPEARS NECESSARY TO SET THE STAGE FOR FURTHER EXPLORATION.

I TRUST THAT THE US PROPOSAL ALONG WITH THE USSR PROPOSAL WILL PROVIDE A GOOD BASIS TO REACH AGREEMENTS FOR FUTURE PROGRAMMATIC COOPERATION DURING THE VISIT OF YOUR DELEGATION TO THE US JUNE 16-26. END QUOTE.

2. FOLLOWING IS TEXT OF PROPOSAL.

BEGIN QUOTE. A. EXCHANGE OF SPECIALISTS

THE U.S. PROPOSES AN EXCHANGE OF THREE TO FOUR MAN TEAMS OF SPECIALISTS IN THE FOLLOWING AREAS, SPECIFICALLY:

1. A THREE TO FOUR MAN TEAM OF SPECIALISTS DEALING WITH THE OPERATION AND MAINTENANCE OF WATER SUPPLY SYSTEMS FOR THERMAL POWER PLANTS, INCLUDING OPERATIONAL EXPERIENCE WITH CHEMICAL AND MECHANICAL CLEANING OF CONDENSER TUBES, AND OPERATIONAL EXPERIENCE ASSOCIATED WITH MITIGATING POLLUTION OF WASTE WATER INCLUDING ITS TREATMENT.

2. A THREE TO FOUR MAN TEAM OF SPECIALISTS DEALING WITH OPERATION AND MAINTENANCE OF NATURAL DRAFT COOLING TOWERS (WET TYPE) TO INCLUDE CLEANING OF COOLING TOWERS AND DISPOSAL OF COOLING TOWER WASTE PRODUCTS.

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3. A THREE TO FOUR MAN TEAM OF SPECIALISTS DEALING WITH THE OPERATION AND MAINTENANCE OF DRY COOLING TOWERS.

4. A THREE TO FOUR MAN TEAM OF SPECIALISTS DEALING WITH THE PROBLEMS OF UTILIZATION OF WASTE HEAT FOR THERMAL POWER PLANTS INCLUDING SOCIO-ECONOMIC TRADEOFFS.

5. A THREE TO FOUR MAN TEAM OF SPECIALISTS TO EXPLORE THE MUTUAL DEVELOPMENT OF SYSTEMS AND DESIGNS OF HEAT DISCHARGE FOR SPECIFIC THERMAL POWER PLANTS, TO INCLUDE THE DEVELOPMENT OF DESIGN AND ECONOMIC CRITERIA.

B. EXCHANGE OF LITERATURE, INFORMATION RELATING TO EXPERIENCE; RESEARCH RESULTS AND EXPERIENCE; OPERATIONAL INSTRUCTIONS; STANDARDS; REGULATIONS AND OTHER PERTINENT MATERIAL

THE US PROPOSES THE FOLLOWING EXCHANGE OF SUBJECT MATERIAL

1. PREPARATION AND EXCHANGE OF A REPORT BY EACH OF THE PARTIES CONTAINING THE MOST VIABLE SOLUTIONS TO THE PROBLEMS OF THERMAL DISCHARGES FROM THERMAL POWER PLANTS.

2. PREPARATION AND EXCHANGE OF A BIBLIOGRAPHY BY EACH OF THE PARTIES OF LITERATURE IN THEIR RESPECTIVE COUNTRIES RELATING TO THE DESIGN, FABRICATION, ERECTION, TEST, OPERATION, AND MAINTENANCE OF WATER SUPPLY SYSTEMS FOR THERMAL POWER PLANTS. THESE BIBLIOGRAPHIES WOULD BECOME THE BASIS FOR AN INTERCHANGE OF INFORMATION IN THIS AREA.

3. PREPARATION AND EXCHANGE OF A BIBLIOGRAPHY BY EACH OF THE PARTIES OF RESEARCH RESULTS IN THEIR RESPECTIVE COUNTRIES RELATING TO AERODYNAMICS AND THERMAL DESIGN AND SITING OF LARGE NATURAL DRAFT COOLING TOWERS. THESE BIBLIOGRAPHIES WOULD BECOME THE BASIS FOR AN EXCHANGE OF RESEARCH RESULTS IN THIS AREA.

4. PREPARATION AND EXCHANGE OF A BIBLIOGRAPHY BY EACH OF THE PARTIES OF INFORMATION ON THE DESIGN AND MATERIALS OF WATER DISTRIBUTION SYSTEMS USED IN LARGE NATURAL DRAFT COOLING TOWERS. THESE BIBLIOGRAPHIES WOULD BECOME THE BASIS OF AN EXCHANGE OF INFORMATION IN THIS AREA.

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5. PREPARATION AND EXCHANGE OF A BIBLIOGRAPHY BY EACH OF THE PARTIES OF INFORMATION ON THE OPERATION AND MAINTENANCE OF LARGE NATURAL DRAFT COOLING TOWERS INCLUDING THE CLEANING OF COOLING TOWERS, AND THE DISPOSAL OF WASTE FROM COOLING TOWERS. THESE BIBLIOGRAPHIES WOULD BECOME THE BASIS FOR AN EXCHANGE OF INFORMATION IN THIS AREA.

6. PREPARATION AND EXCHANGE OF A BIBLIOGRAPHY BY EACH OF THE PARTIES OF INFORMATION ON THE CLEANING OF CONDENSERS, THE TREATMENT OF CONDENSER COOLING WATER, AND THE PURIFICATION OF WASTE WATER. THESE BIBLIOGRAPHIES WOULD BECOME THE BASIS FOR AN EXCHANGE OF INFORMATION IN THIS AREA.

7. COMPILATION AND EXCHANGE BY EACH OF THE PARTIES OF

GOVERNMENT STANDARDS, REGULATIONS, LAWS AND OTHER ACTS REGULATING THE DISPOSAL OF WASTE HEAT AND WASTE WATER FROM THERMAL POWER PLANTS AND THE USE OF WATER AND LAND RESOURCES EXPRESSLY FOR THE PURPOSE OF SUCH DISPOSAL.

8. PREPARATION AND EXCHANGE OF A BIBLIOGRAPHY BY EACH OF THE PARTIES OF RESEARCH RESULTS ON THE EFFECTS OF WASTE HEAT ON THE HYDROBIOLOGY AND HYDROCHEMISTRY OF THE WATERS RECEIVING THE WASTE HEAT. THESE BIBLIOGRAPHIES WOULD BECOME THE BASIS FOR AN EXCHANGE OF INFORMATION IN THIS AREA.

9. COMPILATION AND EXCHANGE BY EACH OF THE PARTIES OF BIOLOGICAL PROBLEMS ASSOCIATED WITH WATER SUPPLY SYSTEMS FOR THERMAL POWER PLANTS, AND THEIR SOLUTIONS.

10. COMPILATION AND EXCHANGE BY EACH OF THE PARTIES OF CONCEPT DESIGNS OF FISH PROTECTION SCREENS AND OTHER METHODS FOR THE PROTECTION OF FISH.

11. COMPILATION AND EXCHANGE BY EACH OF THE PARTIES OF OPERATIONAL EXPERIENCE WITH FISH PROTECTION SCREENS AND OTHER METHODS FOR THE PROTECTION OF FISH.

12. PREPARATION AND EXCHANGE OF A BIBLIOGRAPHY BY EACH OF THE PARTIES OF EFFECTS OF COOLING TOWERS ON MICRO-CLIMATE AND ON ATMOSPHERIC PROCESSES. THESE BIBLIOGRAPHIES WOULD UNCLASSIFIED

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BECOME THE BASIS FOR AN EXCHANGE OF INFORMATION IN THIS AREA.

13. COMPILATION AND EXCHANGE OF RESULTS OF FIELD AND LABORATORY RESEARCH OF SPECIFIC COOLING TOWERS. SUCH COMPILATION AND EXCHANGE SHALL BE MADE ON A RECIPROCAL BASIS, I.E., A SURVEY OF A SPECIFIC COOLING TOWER IN THE U.S. VS. A SPECIFIC COOLING TOWER IN THE USSR.

C. SYMPOSIUMS

THE US PROPOSES THAT A JOINT US/USSR SYMPOSIUM BE HELD IN 1975 COVERING ONE OF THE FOLLOWING SUBJECTS:

1. METHODS OF UTILIZING WASTE HEAT FROM THERMAL POWER PLANTS INCLUDING DESIGN CONCEPTS, ECONOMICS, AND RESEARCH AND DEVELOPMENT TESTS.

2. DEVELOPMENT, OPERATION AND MAINTENANCE OF EVAPORATIVE TYPE COOLING TOWERS.

NOTE:

1) UP TO 10 USSR DELEGATES AND UP TO 10 US DELEGATES
WILL ATTEND THE SYMPOSIUM. UP TO 10 PAPERS WILL BE
PRESENTED BY EACH SIDE.

2) TITLES OF THE 10 PAPERS FROM EACH SIDE WILL BE
EXCHANGED BY (DATE).

3) ABSTRACTS OF THE 10 PAPERS FROM EACH SIDE WILL BE
EXCHANGED BY (DATE).

4) COMPLETE PAPERS WILL BE MADE AVAILABLE TO THE HOST
ORGANIZATION BY (DATE).

(DATES FOR ITEMS 2, 3, AND 4 ABOVE WILL BE DETERMINED AT
THE JUNE 17 MEETING.) END QUOTE. END. KISSINGER

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